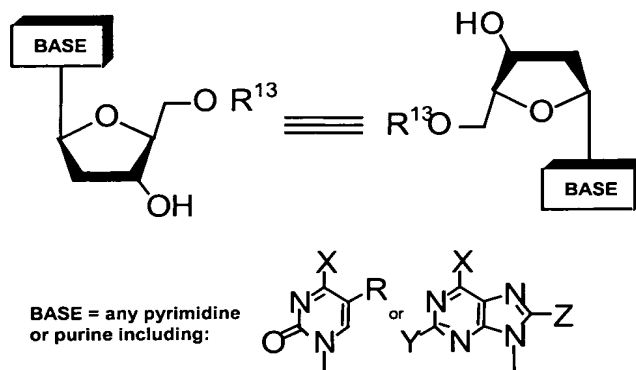


## ABSTRACT OF INVENTION

This invention provides processes for the preparation of compounds having the structure:



5 wherein

X and Y are same or different, and H, OH, OR, SH, SR, NH<sub>2</sub>, NHR', or NR'R''

Z is H, F, Cl, Br, I, CN, or NH<sub>2</sub>.

R is hydrogen, halogen, lower alkyl of C<sub>1</sub> - C<sub>6</sub> or aralkyl, NO<sub>2</sub>, NH<sub>2</sub>, NHR', NR'R'',  
OH, OR, SH, SR, CN, CONH<sub>2</sub>, CSNH<sub>2</sub>, CO<sub>2</sub>H, CO<sub>2</sub>R', CH<sub>2</sub>CO<sub>2</sub>H, CH<sub>2</sub>CO<sub>2</sub>R', CH=CHR,  
10 CH<sub>2</sub>CH=CHR, or C=CR.

R' and R'' are same or different, and lower alkyl of C<sub>1</sub> - C<sub>6</sub>.

R<sup>13</sup> is hydrogen, alkyl, acyl, phosphate (monophosphate, diphosphate, triphosphate, or stabilized phosphate) or silyl; and